Fusion3

F200 3D Printer

REPAIR:
BED PROBE MOTOR STALLING

Revision 6/17/2025

FIXING BED PROBE MOTOR STALL

If your bed probe motor stalls or makes a grinding noise when the probe is retracted, follow this guide to resolve it.

BEFORE YOU BEGIN

Your printer should be off and cold.

Your printer should be unplugged.

Estimated repair time: 20 minutes.

Tools required:

- Torx T10 driver
- 2.5mm hex drive

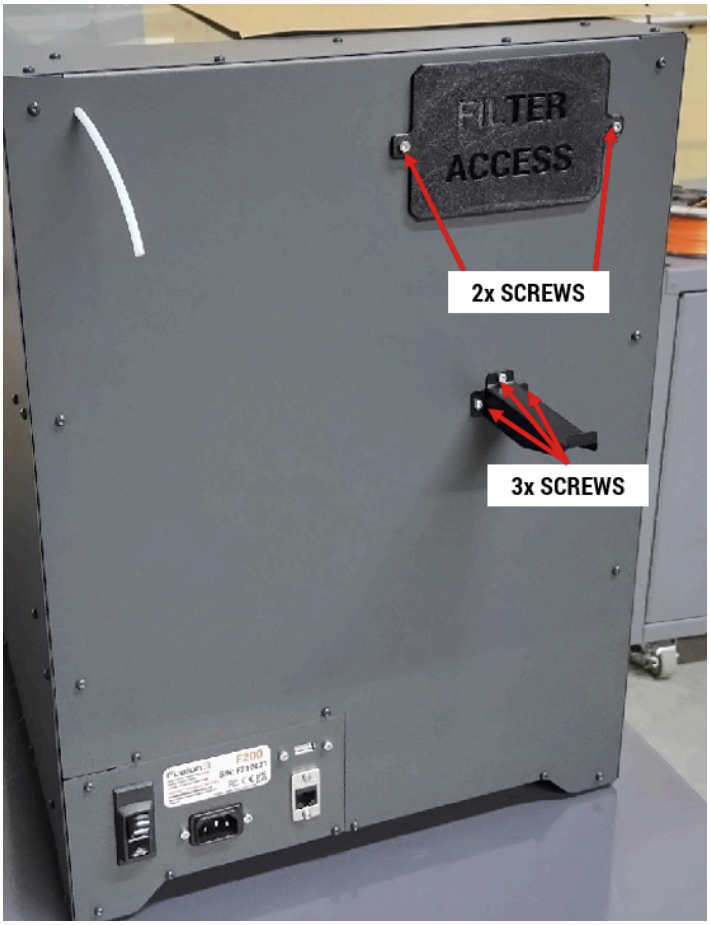
Extra parts required:

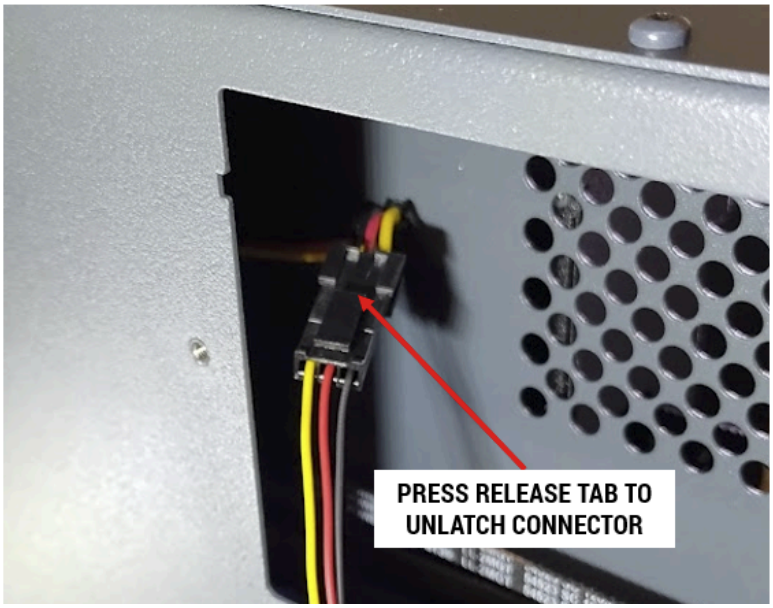
- 13x M3x6 SHCS

NOTE: Some of these pictures were taken on a pre-production printer and your printer will look slightly different.

REMOVAL

1. Unplug the printer
2. If your filament spool holder is mounted on the rear, remove it (3x M3 screws).
3. Remove the chamber filter from the printer (2x M3 screws & inline electrical connector).



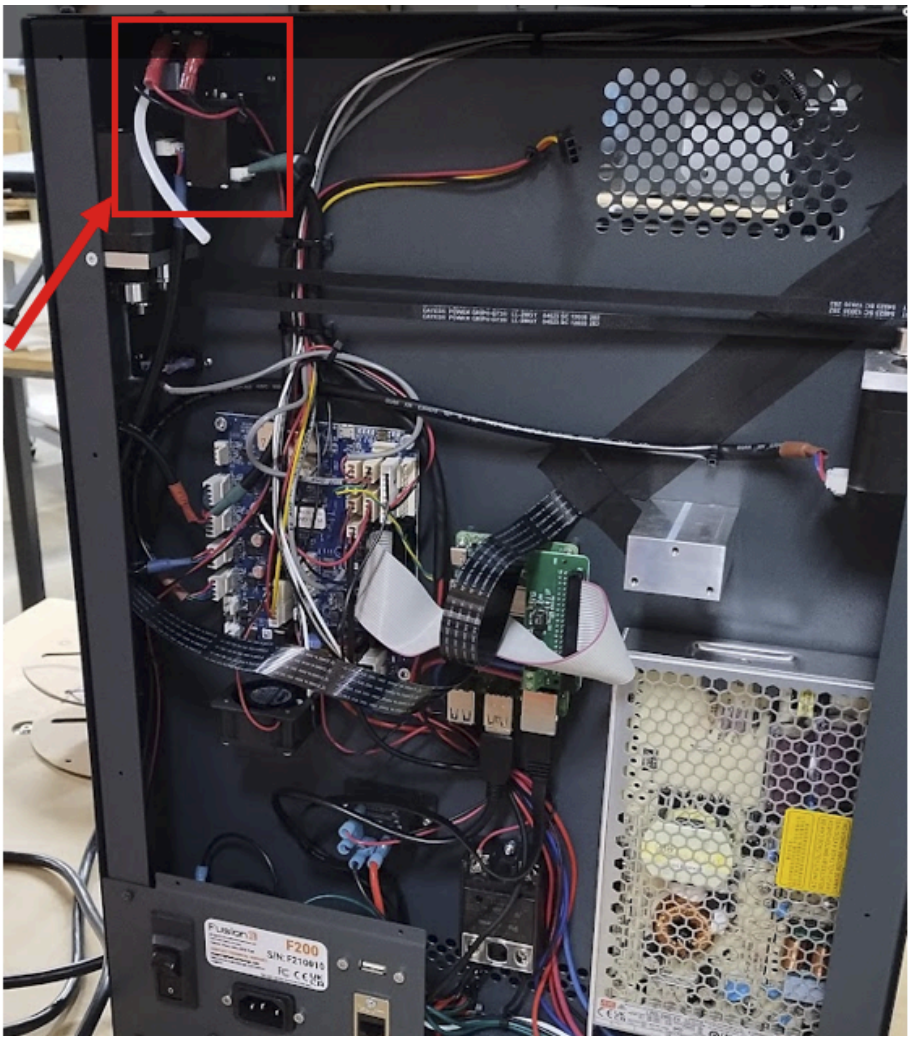


4. Use the T10 driver to remove the 13 screws holding the rear panel onto the printer

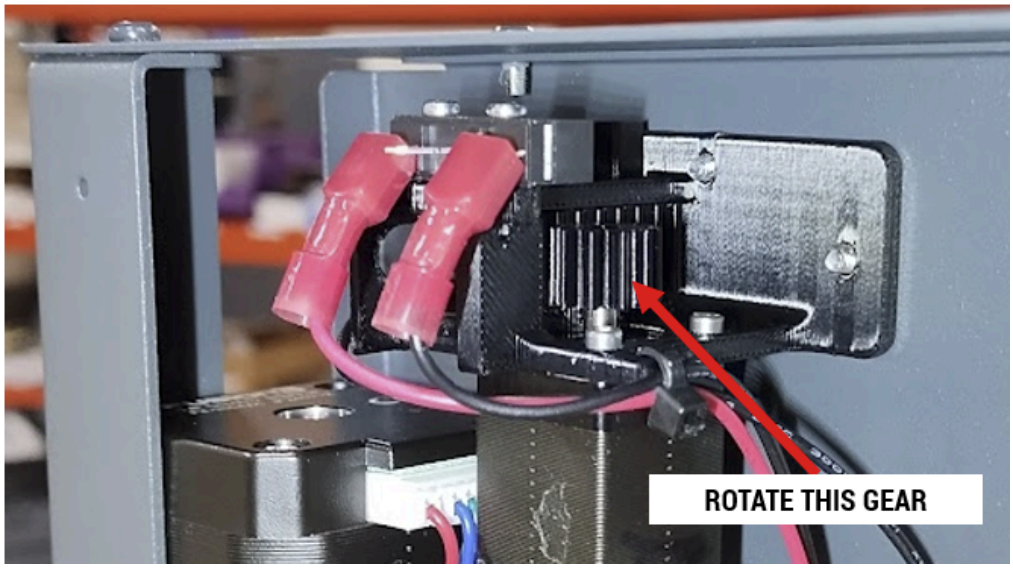
a. The filament tube is a press fit through this panel, so after the screws are out you will need to carefully work the tube out of its hole so the panel can be fully separated from the printer.

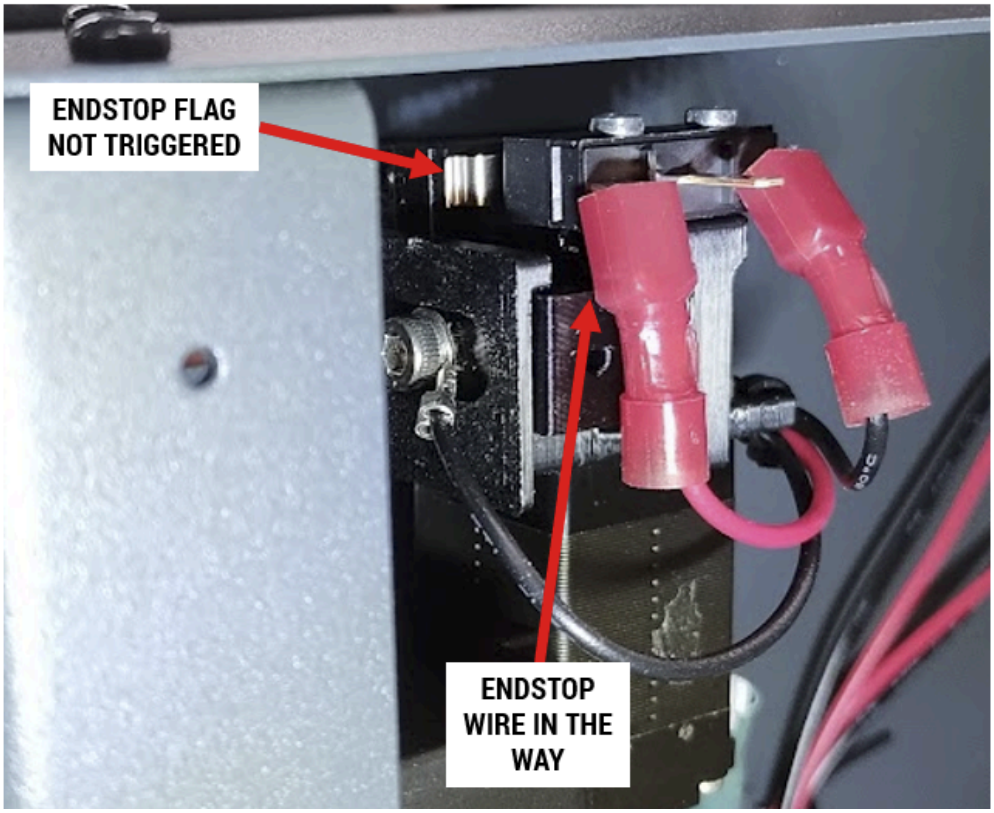
FIX

1. The bed probe motor is located in the top left.



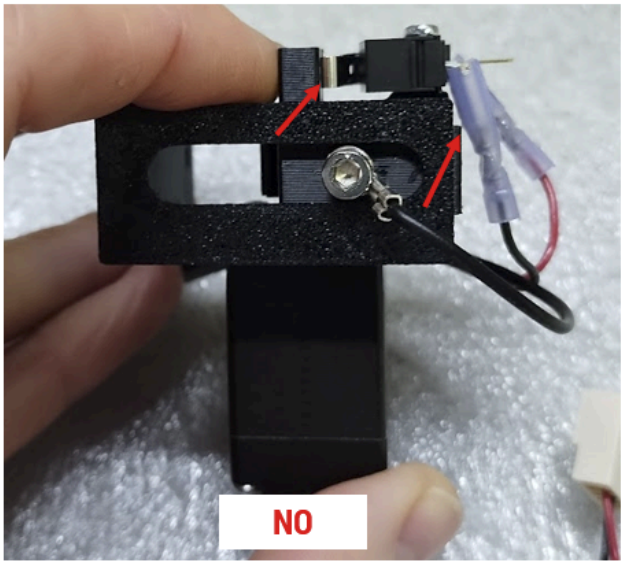
2. Use your finger to spin the small gear so the rack slides back. Observe if the rack contacts anything before it triggers the endstop switch.

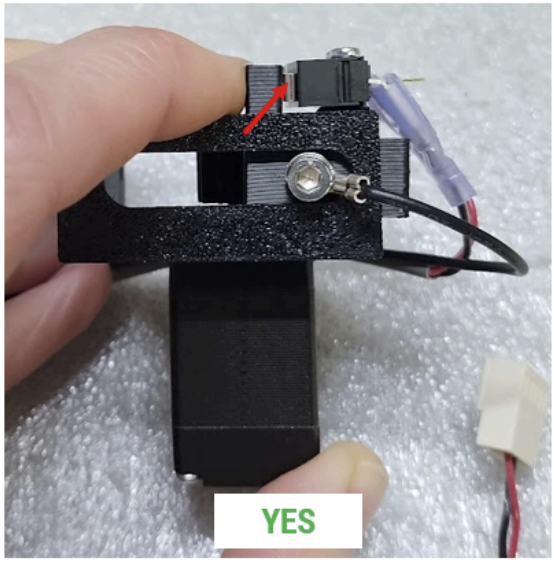




a. Usually the culprit is one of the endstop switch wires. Bend it out slightly and recheck motion

BED PROBE MOTOR ASSY REMOVED FROM
PRINTER FOR CLARITY





b. If you're not sure, run it back and forth to check for binding. Motion should be smooth and require light force until the pin reaches its deployed position.

Pic

c. If you don't see an issue, STOP here with the back off the machine and schedule a video call with Customer Support.

TESTING

1. Connect the power cord and power on.
2. Go to the *Control* screen. Press "Deploy" and "Retract". Make sure the bed probe moves smoothly and doesn't hit anything.
3. Use your hand or a small ~100x100mm flat surface to "simulate" the rear panel to make sure you can reinstall the rear panel without hitting anything that you just adjusted. Deploy and retract the probe again using the buttons on the *Control* screen.

REINSTALLATION

NOTE: THE SELF-THREADING SCREWS (T10 Head) MUST BE REPLACED WITH M3x6 SHCS.

1. Reinstall the rear panel
    a. Push the filament feed tube back through the hole in the panel.
    b. Reinstall the (13) screws.

2. Adjust the filament feed tube. Approx 100mm should extend outside the printer.

3. We recommend an additional function check at this point to make sure the bed probe is still working correctly (using the buttons on the *Control* screen).
4. Reinstall the spool holder and filter.

STILL NEED HELP?

Contact our support team:

support@fusion3design.com

https://www.fusion3design.com/contact-support/

877-452-0010 x2